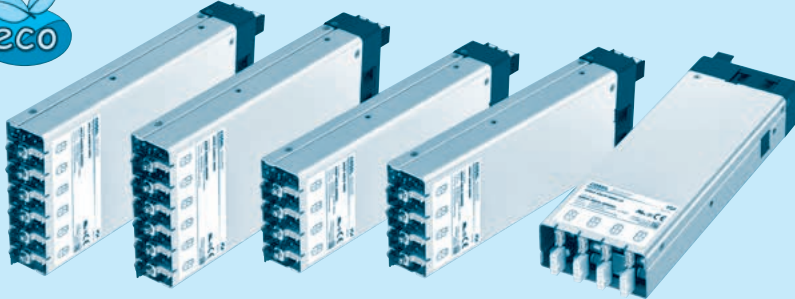


# AME series

AM   -       -    -

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪



Output connector type (option: -J2)

Example recommended EMI/EMC filter  
 AME400F NAC-06-472  
 AME600F NAC-10-472  
 AME800F NAC-16-472  
 AME1200F NAC-20-472



High voltage pulse noise type: NAP series  
 Low leakage current type: NAM series  
 \* A higher current rating EMI/EMC filter may be recommended in view of the other devices that could be connected in parallel with the power supply.

- ① Abbreviation series name of AME series
- ② Abbreviation power of AME series  
 04 : AME400F  
 06 : AME600F  
 08 : AME800F  
 12 : AME1200F
- ③ Slot 6 Output module
- ④ Slot 5 Output module
- ⑤ Slot 4 Output module
- ⑥ Slot 3 Output module
- ⑦ Slot 2 Output module
- ⑧ Slot 1 Output module
- ⑨ Parallel code
- ⑩ Series code
- ⑪ Option  
 J2 : Output connector type  
 J3 : CN1/CN2/CN3  
 Molex connectors  
 R : Reversed logic remote on/off  
 A : 12V/0.1A AUX instead of 5V1A  
 Refer to instruction manual 6.1 \*7

The AME series has Order Name which is used for the ordering aside from Model Name.

\*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

## SPECIFICATIONS

	MODEL	AME400F	AME600F	AME800F	AME1200F	
INPUT	VOLTAGE [VAC]	85-264 1 φ				
	CURRENT [A]	ACIN 100V	3.0typ	5.0typ	7.0typ	12typ
		ACIN 230V	2.0typ	3.2typ	4.0typ	6.4typ
	FREQUENCY [Hz]	50/60 (45 - 66)				
	EFFICIENCY [%]	ACIN 100V	85typ	87typ	87typ	88typ
		ACIN 230V	89typ	91typ	90typ	91typ
	POWER FACTOR	ACIN 100V	0.98typ	0.98typ	0.98typ	0.98typ
		ACIN 230V	0.95typ	0.95typ	0.95typ	0.95typ
INRUSH CURRENT [A]	ACIN 100V	15/50typ (Po = 100%)(Primary inrush current / Secondary inrush current) (More than 3 sec. to re-start)				
	ACIN 230V	35/50typ (Po = 100%)(Primary inrush current / Secondary inrush current) (More than 3 sec. to re-start)				
LEAKAGE CURRENT [mA]	0.30max (ACIN 240V 60Hz, Io = 100%, According to IEC60601-1)					
OUTPUT	NUMBER OF SLOT	4		6		
	TOTAL OUTPUT [W]	ACIN 90-150V	250	400	600	1000
		ACIN 170-264V	400	600	800	1200
	START-UP TIME [ms]	800typ (ACIN 100V, Po = 100%)				
HOLD-UP TIME [ms]	20typ (ACIN230V, Po = 80%) / 16typ (ACIN230V, Po = 100%)					
FUNCTION	AUXILIARY POWER (AUX)	5V1A				
	GLOBAL INHIBIT (GI)	Provided				
	ALARM (PR)	Provided				
ISOLATION	INPUT - OUTPUT	4,000VAC 1minute, Cutoff current = 10mA, 500VDC 50MΩ min (At Room Temperature) 2MOPP				
	INPUT - FG	2,000VAC 1minute, Cutoff current = 10mA, 500VDC 50MΩ min (At Room Temperature) 1MOPP				
	OUTPUT - FG	500VAC 1minute, Cutoff current = 100mA, 500VDC 50MΩ min (At Room Temperature)				
	OUTPUT - RC, LV, AUX, PR, GI	500VAC 1minute, Cutoff current = 100mA, 500VDC 50MΩ min (At Room Temperature)				
ENVIRONMENT	OPERATING TEMP., HUMIDITY, AND ALTITUDE	-20 to +70°C, 20 - 90%RH (Non condensing)				
	STORAGE TEMP., HUMIDITY, AND ALTITUDE	-20 to +75°C, 20 - 90%RH (Non condensing)				
	VIBRATION	10 - 55Hz 19.6m/s <sup>2</sup> (2G) 3minutes period, 60minutes each along X, Y and Z axis				
	IMPACT	196.1m/s <sup>2</sup> (20G) 11ms, once each X, Y and Z axis				
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS	UL62368-1, C-UL (CAN/CSA-C22.2 No.62368-1), EN62368-1, ANSI/AAMI ES60601-1, C-UL (CAN/CSA-C22.2 No.60601-1), EN60601-1 3rd Complies with IEC60601-1-2 4th Ed.				
	CONDUCTED NOISE	Complies with FCC-B, VCCI-B, CISPR11-B, CISPR32-B, EN55011-B, EN55032-B				
	HARMONIC ATTENUATOR	Complies with IEC61000-3-2 (classA)				
OTHERS	CASE SIZE	89 X 41 X 257mm (W X H X D) [3.50 X 1.61 X 10.12 inches]		127 X 41 X 257mm (W X H X D) [5.00 X 1.61 X 10.12 inches]		
	WEIGHT [kg]	1.2max		1.8max		
	COOLING METHOD	Forced cooling (internal fan)				

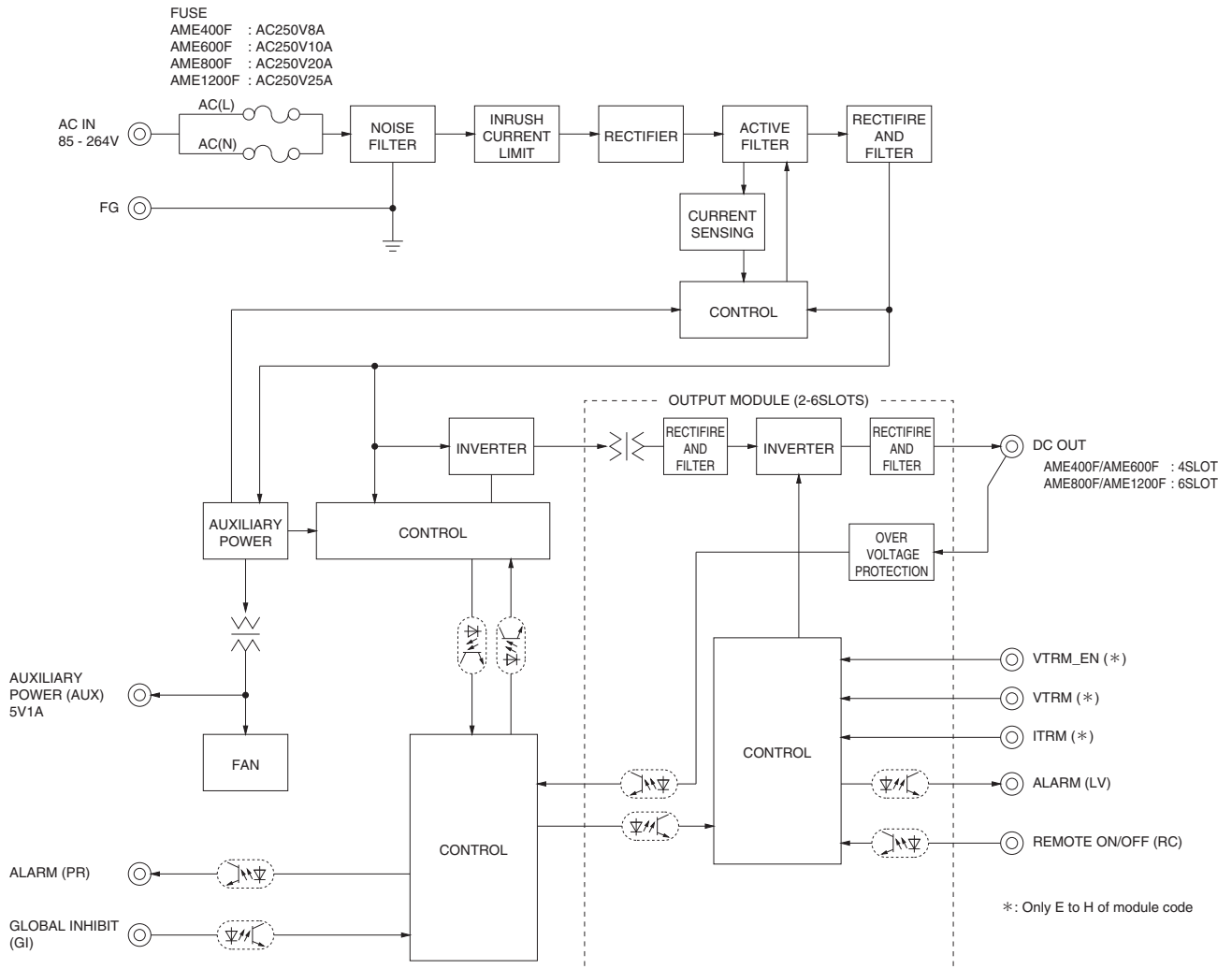
\*1 The current of input surge to a built-in EMI/EMS Filter(0.2ms or less) is excluded.  
 \*2 Refer to instruction manual 6.3 Derating for detail.  
 \*3 Each output module, RC, LV, AUX, PR, and GI are isolated.  
 \*4 Case size contains neither the terminal blocks, screw nor other projections.  
 \*5 Please contact us about other classes.  
 \*6 Please contact us about safety approvals for the model with option.  
 \*7 At the total output power.  
 The value depends on the combination of output modules or load factor.  
 \* The audible noise might be emitted from the power supply at the pulse load.

Output module specifications

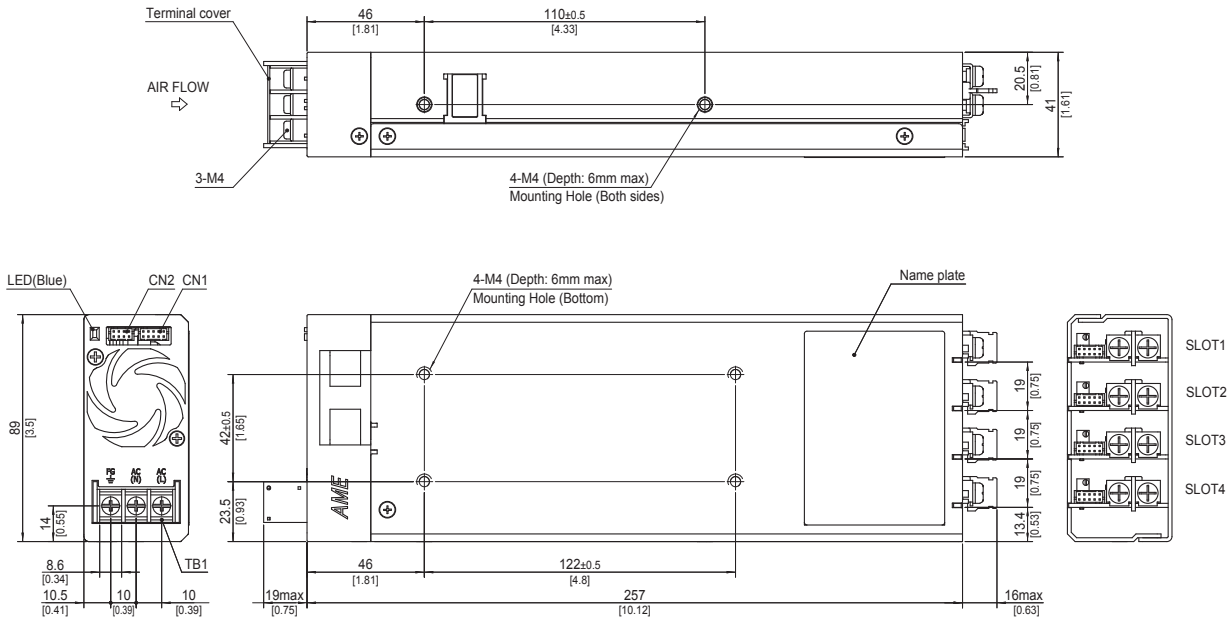
ITEM	CODE	120W suitable single output				240W suitable single output			
		A	B	C	D	E	F	G	H
Number of slots used		1	1	1	1	1	1	1	1
VOLTAGE [V]		+5	+12	+24	+48	+5	+12	+24	+48
MINIMUM CURRENT [A]		0	0	0	0	0	0	0	0
CURRENT [A]		12	8.5	5	2.5	32	20	10	5
PEAK CURRENT [A]	*3	-	-	-	-	-	-	15	7.5
LINE REGULATION [mV] max		20	48	96	192	20	48	96	192
LOAD REGULATION [mV] max		40	100	150	240	40	100	150	240
RIPPLE [mVp-p] max	0 to +50°C *1	150	150	250	400	150	150	250	400
	-20 to 0°C *1	200	200	300	450	200	200	300	450
RIPPLE NOISE [mVp-p] max	0 to +50°C *1	200	200	300	450	200	200	300	450
	-20 to 0°C *1	250	250	350	500	250	250	350	500
TEMPERATURE COEFFICIENT [mV] max	0 to +50°C	50	120	240	480	50	120	240	480
DRIFT [mV] max	*2	20	48	96	192	20	48	96	192
OUTPUT VOLTAGE SETTING [V]		5.00 to 5.15	12.00 to 12.48	24.00 to 24.96	48.00 to 49.92	5.00 to 5.15	12.00 to 12.48	24.00 to 24.96	48.00 to 49.92
OUTPUT VOLTAGE ADJUSTMENT RANGE [V]		4.0 to 6.0	9.6 to 14.4	19.2 to 28.8	38.4 to 57.6	3.0 to 6.0	7.2 to 14.4	14.4 to 28.8	28.8 to 57.6
OVERCURRENT PROTECTION [A]		Works over 105% min of rated current. Automatic recovery. Hiccup mode.				Works over 105% min of rated current or 101% min of peak current. Automatic recovery. Hiccup mode.			
OVERVOLTAGE PROTECTION [V]		6.5 to 7.8	15.0 to 18.6	30.0 to 37.2	60.0 to 74.4	Vo+1.0 to 1.5	Vo+1.2 to 2.4	Vo+2.4 to 4.8	Vo+4.8 to 7.2
FUNCTION		Remote ON/OFF (RC), Alarm (LV) DC_OK (LED: Bule)				Remote ON/OFF (RC), Alarm (LV), Remote sensing (+S/-S), Output voltage adjustment (VTRM), Output current adjustment (ITRM), DC_OK (LED: Bule)			

- \*1 Measured by 20MHz oscilloscope or Ripple-Noise meter (equivalent to KEISOKUGIKEN: RM104).
- \*2 Drift is the change in DC output for an eight hours period after a half-hour warm-up at 25°C.
- \*3 The peak current should be under the following conditions.  
Duration: 5s or less  
Duty: 35% or less  
Average current: Rated current or less

Block diagram



## AME400F/AME600F external view



※ Tolerance :  $\pm 1$  [ $\pm 0.04$ ]

※ Weight : 1.2kg max

※ PCB Material/thickness : FR-4 / 1.6mm [0.06]

※ Chassis material : Aluminum

※ Fan cover Material : PBT

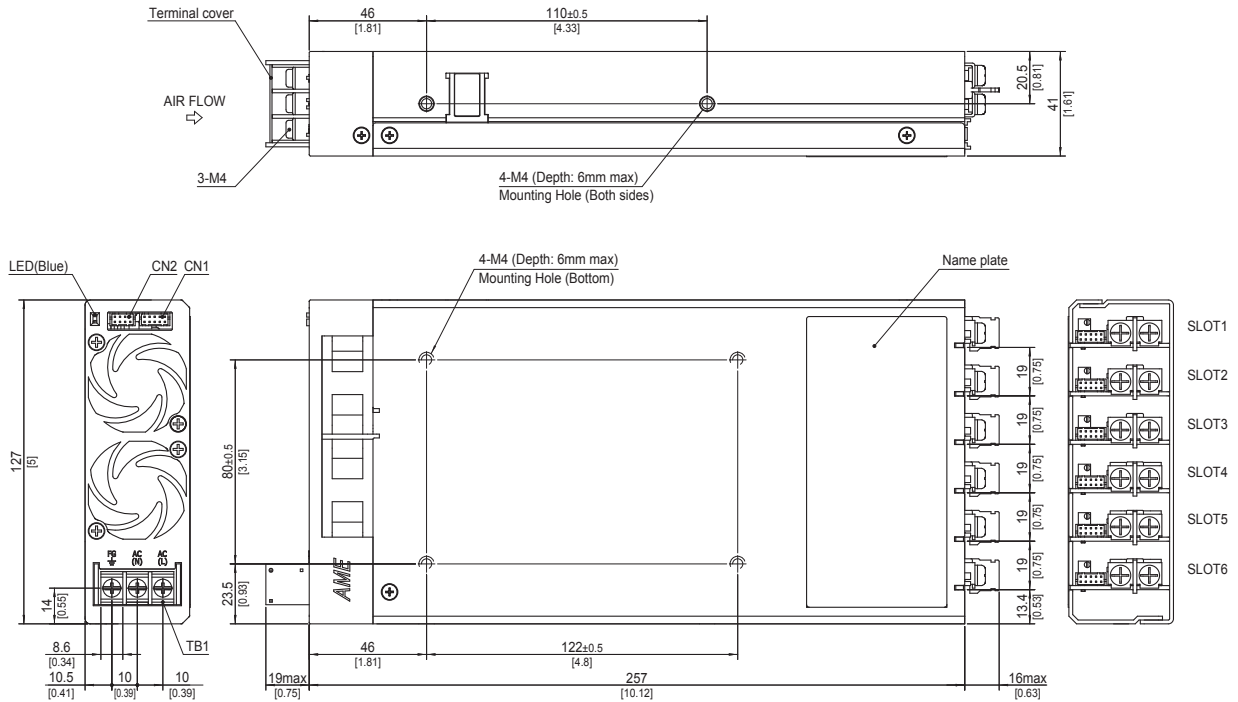
※ Dimensions in mm, [ ] = inches

※ Mounting torque M4 : 1.2N·m max

※ Input and output terminal screw tightening torque M4 : 1.6N·m max

※ Please connect safety ground to FG terminal on the unit.

## AME800F/AME1200F external view



※ Tolerance :  $\pm 1$  [ $\pm 0.04$ ]

※ Weight : 1.8kg max

※ PCB Material/thickness : FR-4 / 1.6mm [0.06]

※ Chassis material : Aluminum

※ Fan cover Material : PBT

※ Dimensions in mm, [ ] = inches

※ Mounting torque M4 : 1.2N·m max

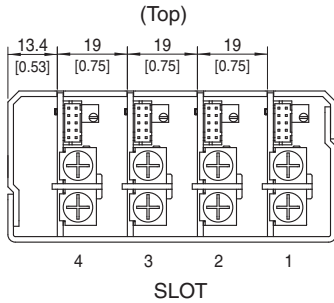
※ Input and output terminal screw tightening torque M4 : 1.6N·m max

※ Please connect safety ground to FG terminal on the unit.

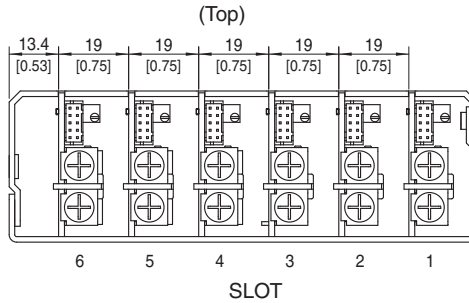
Output module and connector pin assign

1. Output side view

AME400F/AME600F Output side view

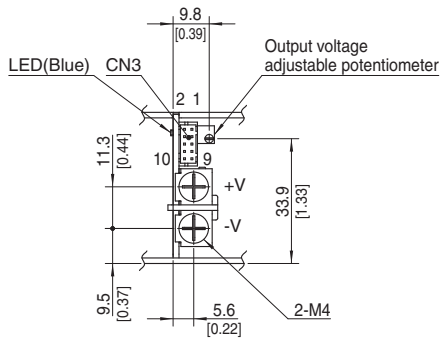


AME800F/AME1200F Output side view



※Tolerance :  $\pm 1$  [ $\pm 0.04$ ]  
 ※Dimensions in mm, [ ]=inches

2. Output module side view



Module : A-H

※Tolerance :  $\pm 1$  [ $\pm 0.04$ ]  
 ※Dimensions in mm, [ ]=inches



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